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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/840,322	04/23/2001	Long Y. Chiang	06897-006001	4062
26161	7590 09/23/200	3		
FISH & RICHARDSON PC			EXAMINER	
225 FRANKLIN ST BOSTON, MA 02110		•	CHANNAVAJJALA, LAKSHMI SARADA	
			ART UNIT	PAPER NUMBER
			1615	
	·		DATE MAILED: 09/23/2003	10

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)			
	09/840,322	CHIANG, LO	NG Y.		
Office Action Summary	Examiner	Art Unit			
	Lakshmi S Channav				
The MAILING DATE of this communication app Period for Reply	ears on the cover sh	et with the corr spondent	ce address		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above. The maximum statutory period was a proper or specified above in the provision of the proper or specified above. The provision of the provision	6(a). In no event, however, within the statutory minimuill apply and will expire SIX cause the application to be	may a reply be timely filed m of thirty (30) days will be considered (6) MONTHS from the mailing date of come ABANDONED (35 U.S.C. § 133	this communication.		
1) Responsive to communication(s) filed on 16 J	<u>une 2003</u> .				
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final				
3) Since this application is in condition for allowa closed in accordance with the practice under <i>I</i> Disposition of Claims					
4)⊠ Claim(s) 1-21 is/are pending in the application					
4a) Of the above claim(s) is/are withdraw		nn			
5) Claim(s) is/are allowed.	m nom consideration				
6)⊠ Claim(s) <u>1-21</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requireme	nt.			
Application Papers					
9) The specification is objected to by the Examiner					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	priority under 35 LL	S.C. & 119(a)-(d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:	priority diluci oo o	0.0. 3 110(d) (d) 01 (i).			
1. Certified copies of the priority documents	have been receive	d.			
2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the certified copies of the prior application.	eau (PCT Rule 17.2	2(a)).	onal Stage		
14) Acknowledgment is made of a claim for domestic			ional application)		
a) The translation of the foreign language pro-	visional application	has been received.	ional application,		
Attachment(s)	s priority and of to				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 No	erview Summary (PTO-413) Pape tice of Informal Patent Application er:			

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DETAILED ACTION

Receipt of request for extension of time and amendment a dated 6-16-03 is acknowledged.

Response to Arguments

Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

Claims 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 2,492,972 to Dickey et al (Dickey) or GB 2090834 (GB)

Dickey teaches the preparation of new azo compounds such as p-nitro-trifluoro-methylbenzeneazo-N-b-cyanoethyl-N-hydroxyethylanaline (col. 2-3, in particular, formula on col. 3, lines 25-30). The above formula of Dickey meets the description requirement of instant aniline compound, particularly with respect to the variables W, K and A, as claimed. Dickey fails to teach pharmaceutical compositions and a pharmaceutically acceptable carrier. Therefore, it would have been obvious for one of an ordinary skill in the art at the time of the invention to prepare aqueous compositions containing the above aniline compound of Dickey. However, Dickey teaches aqueous suspension, which reads on a pharmaceutically acceptable carrier. The preamble "pharmaceutical" and the limitation "for inhibiting the growth of tumor cells" is an intended use and carry no patentable weight.

GB teaches pharmaceutically active compounds for formula I. According to the teachings of GB, the formula NR1R2 reads on instant NAW. The variable R3 of GB includes amino or cyano or amino carbonyl and thus meet the requirement of the instant variable K. GB also teaches pharmaceutically acceptable carrier. GB teaches the compositions containing above

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compounds for treating disorders of intermediate metabolism and not as claimed "for inhibiting tumor cells". However, as explained above, instant limitation is an intended use that does not carry patentable distinction. It would have been obvious for one of an ordinary skill in the art at the time of the instant invention to prepare a pharmaceutical composition containing aniline compounds with the claimed attachments form the teachings of GB with an expectation to use it for treating intermediary metabolic disorders.

Claim Rejections - 35 USC § 112

Claims 1-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Enablement is considered in view of the Wands factors (MPEP 2164.01 (a)). These include: nature of the invention, breadth of the claims, state of the art, guidance of the specification, predictability if the art, and the working examples. All the factors have been considered with regard to the claim, with the most relevant factors discussed below.

All rejected claims are drawn to the methods of inhibiting the growth of tumor cells with the administration of the instant composition. The nature of the invention is extremely complex in that it encompasses a number of tumors or metastasis conditions and inhibiting the growth of the tumors, which involves the treating and preventing the tumors. The complex nature of the claims is exacerbated by the breadth of the claims. The claim encompasses prevention as well as treatment of tumors that may or may not have been addressed in the specification, by the administration of the composition. The state of the art does not recognize the administration of

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compositions to inhibit the growth of all types of tumors using a single compound. The guidance given by the specification on how to inhibit the growth of different types of tumors is absent. While the instant specification describes in vitro inhibition of murine sarcoma cells, the specification does not provides any guidance as to how to extrapolate the same to other tumors in vivo, in situ or to other animals, birds or human. The specification also fails to teach if the treatment is effective in completely inhibiting the tumor cell growth. The instant example only provides a 40% reduction in the growth of tumor cells, which is not a complete inhibition. Thus, the specification lacks guidance and also provides no evidence that the instant composition is effective for inhibiting the growth all types of tumor cells and whether the administration of the instant composition is effective in inhibiting the growth of a tumor cell at any stage of the tumor i.e., early or late stages. The lack of significant guidance from the specification or prior art with regard to completely inhibition of tumor cell growth with the administration of the instant composition makes practicing the claimed invention unpredictable in terms of the prevention of the tumor progression. Therefore, the practitioner would turn to trial and error experimentation to make/use the instant compositions for inhibiting the growth different types of tumor cells, at different stages of growth cycle, without guidance from the specification or the prior art. Therefore, undue experimentation becomes the burden of the practitioner.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lakshmi S Channavajjala whose telephone number is 703-308-2438. The examiner can normally be reached on 7.30 AM -4.00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K Page can be reached on 703-308-2927. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

Lakshmi S Channavajjala

Examiner

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September 22, 2003